Thomas H Macrae

List of Publications by Year
in descending order

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79 papers	3,939 citations	117625 34 h-index	123424 61 g-index
80 all docs	80 docs citations	80 times ranked	3117 citing authors

#	Article	IF	Citations
1	Insect Heat Shock Proteins During Stress and Diapause. Annual Review of Entomology, 2015, 60, 59-75.	11.8	444
2	Transcription factors and their genes in higher plants. Functional domains, evolution and regulation. FEBS Journal, 1999, 262, 247-257.	0.2	310
3	The small heat shock proteins and their role in human disease. FEBS Journal, 2005, 272, 2613-2627.	4.7	290
4	Tubulin Post-Translational Modifications. Enzymes and Their Mechanisms of Action. FEBS Journal, 1997, 244, 265-278.	0.2	267
5	Gene expression, metabolic regulation and stress tolerance during diapause. Cellular and Molecular Life Sciences, 2010, 67, 2405-2424.	5.4	199
6	Purification, Structure and In vitro Molecular-Chaperone Activity of Artemia P26, a Small Heat-Shockh/alpha-Crystallin Protein. FEBS Journal, 1997, 243, 225-232.	0.2	106
7	Molecular chaperones, stress resistance and development in Artemia franciscana. Seminars in Cell and Developmental Biology, 2003, 14, 251-258.	5.0	103
8	A small stress protein acts synergistically with trehalose to confer desiccation tolerance on mammalian cells. Cryobiology, 2005, 51, 15-28.	0.7	98
9	Flagellar Morphogenesis: Protein Targeting and Assembly in the Paraflagellar Rod of Trypanosomes. Molecular and Cellular Biology, 1999, 19, 8191-8200.	2.3	95
10	Molecular Characterization of a Small Heat Shock/Î±-Crystallin Protein in Encysted Artemia Embryos. Journal of Biological Chemistry, 1997, 272, 19051-19058.	3.4	88
11	Nuclear-Cytoplasmic Translocations of Protein p26 during Aerobic-Anoxic Transitions in Embryos of Artemia franciscana. Experimental Cell Research, 1995, 219, 1-7.	2.6	78
12	Stress tolerance during diapause and quiescence of the brine shrimp, Artemia. Cell Stress and Chaperones, 2016, 21, 9-18.	2.9	78
13	Functional characterization of artemin, a ferritin homolog synthesized in Artemia embryos during encystment and diapause. FEBS Journal, 2007, 274, 1093-1101.	4.7	76
14	Stress response for disease control in aquaculture. Reviews in Aquaculture, 2011, 3, 120-137.	9.0	69
15	Towards an understanding of microtubule function and cell organization: an overview. Biochemistry and Cell Biology, 1992, 70, 835-841.	2.0	64
16	Exposure of gnotobiotic Artemia franciscana larvae to abiotic stress promotes heat shock protein 70 synthesis and enhances resistance to pathogenic Vibrio campbellii. Cell Stress and Chaperones, 2008, 13, 59-66.	2.9	62
17	Maturation of steroid receptors: an example of functional cooperation among molecular chaperones and their associated proteins. Cell Stress and Chaperones, 2000, 5, 76.	2.9	62
18	Diapause termination and development of encystedArtemiaembryos: roles for nitric oxide and hydrogen peroxide. Journal of Experimental Biology, 2010, 213, 1464-1470.	1.7	61

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19	Molecular characterization of artemin and ferritin from Artemia franciscana. FEBS Journal, 2002, 270, 137-145.	0.2	59
20	ArHsp21, a developmentally regulated small heat-shock protein synthesized in diapausing embryos of Artemia franciscana. Biochemical Journal, 2008, 411, 605-611.	3.7	57
21	ArHsp22, a developmentally regulated small heat shock protein produced in diapauseâ€destined Artemia embryos, is stress inducible in adults. FEBS Journal, 2008, 275, 3556-3566.	4.7	54
22	Priming the prophenoloxidase system of Artemia franciscana by heat shock proteins protects against Vibrio campbellii challenge. Fish and Shellfish Immunology, 2011, 31, 134-141.	3.6	54
23	Oligomerization, Chaperone Activity, and Nuclear Localization of p26, a Small Heat Shock Protein from Artemia franciscana. Journal of Biological Chemistry, 2004, 279, 39999-40006.	3.4	53
24	Functional analysis of a small heat shock/Î±-crystallin protein fromArtemia franciscana. FEBS Journal, 2002, 269, 933-942.	0.2	50
25	The Small Heat Shock Protein p26 Aids Development of Encysting Artemia Embryos, Prevents Spontaneous Diapause Termination and Protects against Stress. PLoS ONE, 2012, 7, e43723.	2.5	49
26	Group 1 LEA proteins contribute to the desiccation and freeze tolerance of Artemia franciscana embryos during diapause. Cell Stress and Chaperones, 2014, 19, 939-948.	2.9	45
27	Evidence for multiple group 1 late embryogenesis abundant proteins in encysted embryos of Artemia and their organelles. Journal of Biochemistry, 2010, 148, 581-592.	1.7	43
28	Inhibition of apoptosis by p26: implications for small heat shock protein function during Artemia development. Cell Stress and Chaperones, 2006, 11, 71.	2.9	41
29	A small heat shock/Î±-crystallin protein from encysted Artemia embryos suppresses tubulin denaturation. Cell Stress and Chaperones, 2003, 8, 183.	2.9	40
30	Gene expression in diapause-destined embryos of the crustacean, Artemia franciscana. Mechanisms of Development, 2007, 124, 856-867.	1.7	39
31	Reversible arrest of Artemia development by cadmium. Canadian Journal of Zoology, 1986, 64, 1633-1641.	1.0	36
32	Cadmium and zinc reversibly arrest development ofArtemia larvae. Bulletin of Environmental Contamination and Toxicology, 1986, 37, 289-296.	2.7	36
33	Developmentally regulated synthesis of p8, a stress-associated transcription cofactor, in diapause-destined embryos of Artemia franciscana. Cell Stress and Chaperones, 2007, 12, 255.	2.9	36
34	Functional differentiation of small heat shock proteins in diapauseâ€destined <scp>A</scp>rtemia embryos. FEBS Journal, 2013, 280, 4761-4772.	4.7	34
35	Non-lethal heat shock induces Hsp70 synthesis and promotes tolerance against heat, ammonia and metals in post-larvae of the white leg shrimp Penaeus vannamei (Boone, 1931). Aquaculture, 2018, 483, 21-26.	3.5	33
36	Knockdown of heat shock protein 70 (Hsp70) by RNAi reduces the tolerance of Artemia franciscana nauplii to heat and bacterial infection. Journal of Experimental Marine Biology and Ecology, 2017, 487, 106-112.	1.5	32

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37	Non-Lethal Heat Shock of the Asian Green Mussel, Perna viridis, Promotes Hsp70 Synthesis, Induces Thermotolerance and Protects Against Vibrio Infection. PLoS ONE, 2015, 10, e0135603.	2.5	31
38	Diversity, structure, and expression of the gene for p26, a small heat shock protein from Artemia. Genomics, 2006, 88, 230-240.	2.9	30
39	Spatial distribution of posttranslationally modified tubulins in polarized cells of developingArtemia. Cytoskeleton, 1991, 18, 189-203.	4.4	29
40	Production and utilization of detyrosinated tubulin in developingArtemialarvae: evidence for a tubulin-reactive carboxypeptidase. Biochemistry and Cell Biology, 1995, 73, 673-685.	2.0	29
41	Protein Synthesis in Brine Shrimp Embryos. FEBS Journal, 1981, 117, 543-551.	0.2	29
42	Artemin, a Diapause-Specific Chaperone, Contributes to the Stress Tolerance of Artemia Cysts and Influences Their Release from Females. Journal of Experimental Biology, 2014, 217, 1719-24.	1.7	28
43	The induction of Hsp70 synthesis by non-lethal heat shock confers thermotolerance and resistance to lethal ammonia stress in the common carp,Cyprinus carpio(Linn). Aquaculture Research, 2014, 45, 1706-1712.	1.8	26
44	Post-diapause synthesis of ArHsp40-2, a type 2 J-domain protein from Artemia franciscana, is developmentally regulated and induced by stress. PLoS ONE, 2018, 13, e0201477.	2.5	26
45	Structural and functional roles for beta-strand 7 in the alpha-crystallin domain of p26, a polydisperse small heat shock protein from Artemia franciscana. FEBS Journal, 2006, 273, 1020-1034.	4.7	25
46	Ingestion of bacteria overproducing DnaK attenuates Vibrio infection of Artemia franciscana larvae. Cell Stress and Chaperones, 2009, 14, 603-609.	2.9	25
47	The structural stability and chaperone activity of artemin, a ferritin homologue from diapause-destined Artemia embryos, depend on different cysteine residues. Cell Stress and Chaperones, 2011, 16, 133-141.	2.9	25
48	ArHsp40 and ArHsp40-2 contribute to stress tolerance and longevity in Artemia franciscana, but only ArHsp40 influences diapause entry. Journal of Experimental Biology, 2018, 221, .	1.7	25
49	Characterization of novel sequence motifs within N- and C-terminal extensions of p26, a small heat shock protein from Artemia franciscana. FEBS Journal, 2005, 272, 5230-5243.	4.7	24
50	Toxicity of organic mercury compounds to the developing brine shrimp, Artemia. Ecotoxicology and Environmental Safety, 1991, 21, 68-79.	6.0	21
51	Post-translationally modified tubulins in Artemia: Prelarval development in the absence of detyrosinated tubulin. Developmental Biology, 1991, 148, 147-155.	2.0	20
52	Stress tolerance in diapausing embryos of Artemia franciscana is dependent on heat shock factor 1 (Hsf1). PLoS ONE, 2018, 13, e0200153.	2.5	19
53	Microtubule cold stability in supporting cells of the gerbil auditory sensory epithelium: correlation with tubulin post-translational modifications. Cell and Tissue Research, 2002, 307, 57-67.	2.9	17
54	Hsp70 knockdown reduced the tolerance of Litopenaeus vannamei post larvae to low pH and salinity. Aquaculture, 2019, 512, 734346.	3.5	13

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55	Synthesis of tubulin during early postgastrula development of Artemia: Isotubulin generation and translational regulation. Developmental Biology, 1991, 148, 138-146.	2.0	12
56	Expressed sequence tag (EST)-based characterization of gene regulation inArtemialarvae. Invertebrate Reproduction and Development, 2003, 44, 33-44.	0.8	11
57	Characterization of the microtubule proteome during post-diapause development of Artemia franciscana. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 920-928.	2.3	11
58	Production and characterization of monoclonal antibodies to the mammalian sperm cytoskeleton. Molecular Reproduction and Development, 1990, 25, 384-392.	2.0	10
59	Posttranslationally modified tubulins and microtubule organization in hemocytes of the brine shrimp,Artemia franciscana. , 2000, 244, 153-166.		10
60	Short-term cold stress and heat shock proteins in the crustacean Artemia franciscana. Cell Stress and Chaperones, 2020, 25, 1083-1097.	2.9	10
61	A Molecular Overview of Diapause in Embryos of the Crustacean, Artemia franciscana. Topics in Current Genetics, 2010, , 165-187.	0.7	10
62	ArHsp40, a type 1 J-domain protein, is developmentally regulated and stress inducible in post-diapause Artemia franciscana. Cell Stress and Chaperones, 2016, 21, 1077-1088.	2.9	9
63	Knockdown of the small heat-shock protein p26 by RNA interference modifies the diapause proteome ofArtemia franciscana. Biochemistry and Cell Biology, 2019, 97, 471-479.	2.0	7
64	Identification of RNAi-related genes and transgenerational efficiency of RNAi in Artemia franciscana. Aquaculture, 2019, 501, 285-292.	3.5	7
65	RNA interference of Hsp70 in Artemia franciscana nauplii and its effect on morphology, growth, survival and immune response. Aquaculture, 2020, 520, 735012.	3.5	7
66	Characterization of Î³-tubulin inArtemia: Isoform composition and spatial distribution in polarized cells of the larval epidermis. , 1998, 40, 331-341.		6
67	Artemia Morphology and Structure. , 2002, , 1-37.		6
68	Spatial organization and isotubulin composition of microtubules in epidermal tendon cells ofArtemia franciscana. Journal of Morphology, 2005, 263, 203-215.	1.2	6
69	The synthesis of diapause-specific molecular chaperones in embryos of Artemia franciscana is determined by the quantity and location of heat shock factor 1 (Hsf1). Cell Stress and Chaperones, 2019, 24, 385-392.	2.9	6
70	Posttranslational modifications and assembly characteristics of goldfish tubulin. Biology of the Cell, 1993, 79, 63-70.	2.0	5
71	Organization of the cytoskeleton in brine shrimp setal cells is molt-dependent. Canadian Journal of Zoology, 1995, 73, 765-774.	1.0	5
72	Improving the longâ€term storage of a mammalian biosensor cell line via genetic engineering. Biotechnology and Bioengineering, 2010, 106, 474-481.	3.3	5

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73	Relative growth of the tendinal cell and muscle in larvalArtemia. Invertebrate Reproduction and Development, 1995, 28, 205-210.	0.8	4
74	Truncation attenuates molecular chaperoning and apoptosis inhibition by p26, a small heat shock protein fromArtemia franciscana. Biochemistry and Cell Biology, 2010, 88, 937-946.	2.0	4
75	Nonneural microtubule proteins: Structure and function. BioEssays, 1987, 6, 128-132.	2.5	3
76	Cloning and sequencing of tubulin cDNAs from Artemia franciscana: evidence for differential expression of Î±- and Î²-tubulin genes. Biochemistry and Cell Biology, 2009, 87, 989-997.	2.0	1
77	Small Heat Shock Proteins and Diapause in the Crustacean, Artemia franciscana. Heat Shock Proteins, 2015, , 563-578.	0.2	1
78	Artemia tubulin genes and mRNA. Biochemical Society Transactions, 1987, 15, 1173-1174.	3.4	0
79	Preparation and Characterization of Posttranslationally Modified Tubulins From Artemia franciscana. Methods in Molecular Medicine, 2007, , 45-63.	0.8	0